

**To:** Lisichenko, Peter[Peter.Lisichenko@westonsolutions.com]  
**Cc:** Daly, Eric[Daly.Eric@epa.gov]  
**From:** Nguyen, Lyndsey  
**Sent:** Mon 9/12/2016 4:46:16 PM  
**Subject:** Re: RFP No.:403 - NFB Site

Yep, if they use both Pb-214 and Bi-214, how do they determine Ra-226? Do they average? Do they take the activity of which ever radionuclide is higher? Yes the Pb-214 and Bi-215 should be the same but which one do they go with? How do they decide?

-Lyndsey

Sent from my iPhone

On Sep 12, 2016, at 9:00 AM, Lisichenko, Peter <[Peter.Lisichenko@westonsolutions.com](mailto:Peter.Lisichenko@westonsolutions.com)> wrote:

Lyndsey,

Please see below. Are you OK with this?

-Pete

Peter Lisichenko

Cell/text: (603) 512-4350

**From:** Sumbaly, Smita  
**Sent:** Monday, September 12, 2016 9:58 AM  
**To:** Lisichenko, Peter  
**Subject:** FW: RFP No.:403 - NFB Site

Hi Pete

Please see below email from PACE Analytical and as per your phone conversation with Justin do you have any question or concern regarding the removal of Pb-214 and Bi-214 from the gamma list? Please let me know.

Smita

**From:** Justin Hensley [<mailto:Justin.Hensley@pacelabs.com>]  
**Sent:** Friday, September 09, 2016 12:20 PM  
**To:** Samantha Saultz; Sumbaly, Smita  
**Cc:** Carin Ferris  
**Subject:** Re: FW: RFP No.:403

Hi Smita,

Our response for RFP 403A is attached. As always previously negotiated terms and conditions apply.

A couple of things to point out:

1) I have removed Pb-214 and Bi-214 from the gamma spec list. We use those isotopes to measure the Ra-226 concentration after in-growth. If we report them independently, we have to process the data twice. I did not fully understand this issue when I discussed the gamma parameters with Peter and Lyndsay.

The reality is that all the Pb-214 and Bi-214 are eliminated from the sample during preparation and everything there during analysis is created by the laboratory (through in-growth to get a reliable result for Ra-226). Please let Peter know that we prefer not to report Bi-214 and Pb-214 in addition to Ra-226. In the future, when clients require reporting Bi-214 and Pb-214 in addition to Ra-226, we will be charging more to cover our additional costs. Because those isotopes are eliminated during prep anyway, this is usually not an issue.

Regards,

Justin Hensley

Program Manager

Pace Analytical Services, Inc.

Mobile: 423-307-2906

[Justin.Hensley@pacelabs.com](mailto:Justin.Hensley@pacelabs.com)

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